

(19)



JAPANESE PATENT OFFICE

Ref. 6

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **58103205 A**

(43) Date of publication of application: 20.06.83

(51) Int. Cl. **H01Q 19/10**
H01Q 3/26
H01Q 21/22

(21) Application number: 56201947

(22) Date of filing: 15.12.81

(71) Applicant: **NIPPON TELEGR & TELEPH
 CORP <NTT> MITSUBISHI
 ELECTRIC CORP**

(72) Inventor: **KAGOSHIMA KENICHI
 MIZUSAWA MOTOO
 YAMAMAE MIZUHO
 TAKAMATSU YASUO**

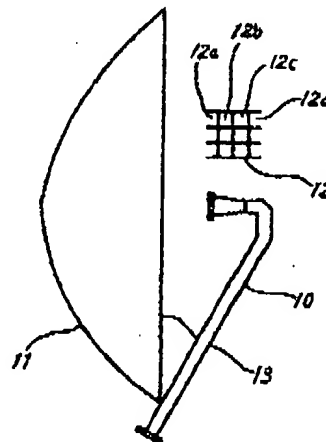
(54) ANTENNA DEVICE

COPYRIGHT (C)1983.JPO&Japio

(57) Abstract:

PURPOSE: To eliminate the necessity to move an antenna although a disturbance wave source varies its direction, by setting a secondary array antenna so that it covers over a part of the opening surface of a reflector and controlling a phase shifter and an attenuator within the antenna.

CONSTITUTION: The electric wave radiated from a primary radiator 10 is reflected by a parabola reflector 11 and has an equal phase on an opening surface 13. A secondary array antenna 12 is set so that a radiation element 12a covers over a part of the surface 13. While the electric wave radiated from a radiation element 12a passes through a phase shifter 12b and an attenuator 12c to be radiated through a radiation element 12d. Both shifter 12b and attenuator 12c are controlled electronically from outside to give the desired phase shift and attenuation to the electric wave. Thus the desired radiation directivity is obtained for the antenna 12.



BEST AVAILABLE COPY